

CLASSIFICATION: 072800 - Fluid-Applied Membrane Air and Water Barriers

PRODUCT DESCRIPTION:
DuPont™ Tyvek® Fluid Applied WB+™
DuPont™ Tyvek® Fluid Applied Flashing and Joint Compound+
DuPont™ Sealant for Tyvek® Fluid Applied System

 **Section 1: Summary**

Nested Method/Product Threshold

CONTENT INVENTORY

Inventory Reporting Format	Threshold Level	Residuals/Impurities	<i>Are All Substances Above the Threshold Indicated:</i>
<input checked="" type="radio"/> Nested Materials Method	<input type="radio"/> 100 ppm	Residuals/Impurities	Characterized <input type="radio"/> Yes <input checked="" type="radio"/> No
<input type="radio"/> Basic Method	<input type="radio"/> 1,000 ppm	Considered in <u>3</u> of <u>3</u>	<i>Percent Weight and Role Provided?</i>
Threshold Disclosed Per	<input checked="" type="radio"/> Per GHS SDS	Materials	Screened <input type="radio"/> Yes <input checked="" type="radio"/> No
<input type="radio"/> Material	<input type="radio"/> Per OSHA MSDS	Explanation(s) provided	<i>Using Priority Hazard Lists with Results Disclosed?</i>
<input checked="" type="radio"/> Product	<input type="radio"/> Other	for Residuals/Impurities?	Identified <input type="radio"/> Yes <input checked="" type="radio"/> No
		<input type="radio"/> Yes <input checked="" type="radio"/> No	<i>Name and Identifier Provided?</i>

CONTENT IN DESCENDING ORDER OF QUANTITY

Summary of product contents and results from screening individual chemical substances against HPD Priority Hazard Lists and the GreenScreen for Safer Chemicals®. The HPD does not assess whether using or handling this product will expose individuals to its chemical substances or any health risk. Refer to Section 2 for further details.

Number of Greenscreen BM-4/BM-3 contents: N/A
Contents highest concern GreenScreen Benchmark or List translator Score: N/A
Nanomaterial: N/A

MATERIAL | SUBSTANCE | RESIDUAL OR IMPURITY
GREENSCREEN SCORE | HAZARD TYPE

Not Applicable

INVENTORY AND SCREENING NOTES:

Exposure to hazards associated with the inputs mentioned are not present in the finished form of DuPont™ Tyvek® Fluid Applied Weather Barrier Systems.

VOLATILE ORGANIC COMPOUND (VOC) CONTENT

Material (g/l):25-30 Regulatory (g/l): 25-30

Does the product contain exempt VOCs? N/A

Are ultra-low VOC tints available? N/A

CERTIFICATIONS AND COMPLIANCE See Section 3 for additional listings.

VOC Emissions: <2% (by weight)

CONSISTENCY WITH OTHER PROGRAMS

DuPont Safety Data Sheet (SDS) - See Section 2

Third Party Verified?	PREPARER: Self-Prepared	SCREENING DATE: August 1, 2018
<input checked="" type="radio"/> Yes	VERIFIER:	PUBLISHED DATE: August 1, 2018
<input checked="" type="radio"/> No	VERIFICATION #:	EXPIRY DATE: August 1, 2021



This section lists contents in a product based on specific threshold(s) and reports detailed health information including hazards. This HPD uses the inventory method indicated above, which is one of three possible methods:

- Basic Inventory method with Product-level threshold.
- Nested Material Inventory method with Product-level threshold.
- Nested Material Inventory method with individual Material-level thresholds.

Definitions and requirements for the three inventory methods and requirements for each data field can be found in the HPD Open Standard version 2.1, available on the HPDC website at: www.hpdcollaborative.org/hpd-2-1-standard

DuPont™ Tyvek® Fluid Applied WB+™

#: 100

HPD URL: www.dupont.com/products-and-services/construction-materials/building-envelope-systems/articles/sustainable-buildings.html

MATERIAL THRESHOLD: 1000 ppm per the SDS

RESIDUALS AND IMPURITIES CONSIDERED: YES

RESIDUALS/IMPURITIES NOTES:

OTHER MATERIAL NOTES:

Undisclosed (Proprietary Formulation)

ID: proprietary

#: 0-100

GS: n/a

RC: n/a

NANO: n/a

ROLE: Body

HAZARDS

AGENCY(IES) WITH WARNINGS:

Not Applicable

Not Applicable

SUBSTANCE NOTES:

Proprietary components are withheld as a trade secret. The percent by weight for this component is intellectual property.

Diamino silane

ID: 1760-24-3

#: 1 - 5 %

GS: n/a

RC: n/a

NANO: n/a

ROLE: Formulation Component

HAZARDS

AGENCY(IES) WITH WARNINGS:

DuPont Safety Data Sheet (SDS) US Globally Harmonized System (GHS)
Ref. 130000146172

SUBSTANCE NOTES:

SDS can be found at: http://www.dupont.com/corporate-links/msds-finder.html

Dibutyltin bis(acetylacetonate)

ID: 22673-19-4

#: 0.1 - 1 %

GS: n/a

RC: n/a

NANO: n/a

ROLE: Formulation Component

HAZARDS

AGENCY(IES) WITH WARNINGS:

DuPont Safety Data Sheet (SDS) US Globally Harmonized System (GHS)
Ref. 130000146172

SUBSTANCE NOTES:

SDS can be found at: http://www.dupont.com/corporate-links/msds-finder.html

Crystalline silica

ID: 14808-60-7

#: 0.1 - 1 %

GS: n/a

RC: n/a

NANO: n/a

ROLE: Formulation Component

HAZARDS

AGENCY(IES) WITH WARNINGS:

DuPont Safety Data Sheet (SDS) US Globally Harmonized System (GHS)
Ref. 130000146172

SUBSTANCE NOTES:

SDS can be found at: http://www.dupont.com/corporate-links/msds-finder.html



DuPont™ Tyvek® Fluid Applied Flashing and Joint Compound+ %: 100

HPD URL: www.dupont.com/products-and-services/construction-materials/building-envelope-systems/articles/sustainable-buildings.html

MATERIAL THRESHOLD: 1000 ppm per the SDS

RESIDUALS AND IMPURITIES CONSIDERED: YES

RESIDUALS/IMPURITIES NOTES:

OTHER MATERIAL NOTES:

Undisclosed (Proprietary Formulation) ID: proprietary

%: 0-100 GS: n/a RC: n/a NANO: n/a ROLE: Body

HAZARDS AGENCY(IES) WITH WARNINGS:

Not Applicable Not Applicable

SUBSTANCE NOTES:

Proprietary components are withheld as a trade secret. The percent by weight for this component is intellectual property.

Calcium carbonate ID: 471-34-1

%: 10 - 40 % GS: n/a RC: n/a NANO: n/a ROLE: Formulation Component

HAZARDS AGENCY(IES) WITH WARNINGS:

DuPont Safety Data Sheet (SDS) US Globally Harmonized System (GHS) Ref. 130000148102

SUBSTANCE NOTES:

SDS can be found at: http://www.dupont.com/corporate-links/msds-finder.html

Titanium dioxide ID: 13463-67-7

%: 5 - 10 % GS: n/a RC: n/a NANO: n/a ROLE: Formulation Component

HAZARDS AGENCY(IES) WITH WARNINGS:

DuPont Safety Data Sheet (SDS) US Globally Harmonized System (GHS) Ref. 130000148102

SUBSTANCE NOTES:

SDS can be found at: http://www.dupont.com/corporate-links/msds-finder.html

Diamino silane ID: 1760-24-3

%: 1 - 5 % GS: n/a RC: n/a NANO: n/a ROLE: Formulation Component

HAZARDS AGENCY(IES) WITH WARNINGS:

DuPont Safety Data Sheet (SDS) US Globally Harmonized System (GHS) Ref. 130000148102

SUBSTANCE NOTES:

SDS can be found at: http://www.dupont.com/corporate-links/msds-finder.html



Trimethoxyvinylsilane ID: 2768-02-7

%: 1 - 2 % GS: n/a RC: n/a NANO: n/a ROLE: Formulation Component

HAZARDS AGENCY(IES) WITH WARNINGS: DuPont Safety Data Sheet (SDS) US Globally Harmonized System (GHS) Ref. 130000148102

SUBSTANCE NOTES: SDS can be found at: http://www.dupont.com/corporate-links/msds-finder.html

Decanedioic Acid Bis(2,2,6,6-tetramethyl-4-piperidyl) Ester ID: 52829-07-9

%: 0.1 - 1 % GS: n/a RC: n/a NANO: n/a ROLE: Formulation Component

HAZARDS AGENCY(IES) WITH WARNINGS: DuPont Safety Data Sheet (SDS) US Globally Harmonized System (GHS) Ref. 130000148102

SUBSTANCE NOTES: SDS can be found at: http://www.dupont.com/corporate-links/msds-finder.html

Dibutyltin bis(acetylacetonate) ID: 22673-19-4

%: 0.1 - 1 % GS: n/a RC: n/a NANO: n/a ROLE: Formulation Component

HAZARDS AGENCY(IES) WITH WARNINGS: DuPont Safety Data Sheet (SDS) US Globally Harmonized System (GHS) Ref. 130000148102

SUBSTANCE NOTES: SDS can be found at: http://www.dupont.com/corporate-links/msds-finder.html

ID:

%, GS, RC, NANO, ROLE

HAZARDS AGENCY(IES) WITH WARNINGS:

SUBSTANCE NOTES:

ID:

%, GS, RC, NANO, ROLE

HAZARDS AGENCY(IES) WITH WARNINGS:

SUBSTANCE NOTES:



DuPont™ Sealant for Tyvek® Fluid Applied System %: 100

HPD URL: www.dupont.com/products-and-services/construction-materials/building-envelope-systems/articles/sustainable-buildings.html

MATERIAL THRESHOLD: 1000 ppm per the SDS

RESIDUALS AND IMPURITIES CONSIDERED: YES

RESIDUALS/IMPURITIES NOTES:

OTHER MATERIAL NOTES:

Undisclosed (Proprietary Formulation) ID: proprietary

%: 0-100 GS: n/a RC: n/a NANO: n/a ROLE: Body

HAZARDS AGENCY(IES) WITH WARNINGS:

Not Applicable Not Applicable

SUBSTANCE NOTES:

Proprietary components are withheld as a trade secret. The percent by weight for this component is intellectual property.

Limestone ID: 1317-65-3

%: 30 - 40 % GS: n/a RC: n/a NANO: n/a ROLE: Formulation Component

HAZARDS AGENCY(IES) WITH WARNINGS:

DuPont Safety Data Sheet (SDS) US Globally Harmonized System (GHS) Ref. 130000094879

SUBSTANCE NOTES:

SDS can be found at: http://www.dupont.com/corporate-links/msds-finder.html

Proprietary Polymer ID: proprietary

%: 20 - 30 % GS: n/a RC: n/a NANO: n/a ROLE: Formulation Component

HAZARDS AGENCY(IES) WITH WARNINGS:

Not Applicable Not Applicable

SUBSTANCE NOTES:

Proprietary components are withheld as a trade secret. The percent by weight for this component is intellectual property.

Polyether diol ID: proprietary

%: 10 - 20 % GS: n/a RC: n/a NANO: n/a ROLE: Formulation Component

HAZARDS AGENCY(IES) WITH WARNINGS:

Not Applicable Not Applicable

SUBSTANCE NOTES:

Proprietary components are withheld as a trade secret. The percent by weight for this component is intellectual property.



Precipitated calcium carbonate ID: 471-34-1

%: 10 - 20 % GS: n/a RC: n/a NANO: n/a ROLE: Formulation Component

HAZARDS AGENCY(IES) WITH WARNINGS: DuPont Safety Data Sheet (SDS) US Globally Harmonized System (GHS) Ref. 130000094879

SUBSTANCE NOTES: SDS can be found at: http://www.dupont.com/corporate-links/msds-finder.html

Titanium dioxide ID: 13463-67-7

%: 1 - 5 % GS: n/a RC: n/a NANO: n/a ROLE: Formulation Component

HAZARDS AGENCY(IES) WITH WARNINGS: DuPont Safety Data Sheet (SDS) US Globally Harmonized System (GHS) Ref. 130000094879

SUBSTANCE NOTES: SDS can be found at: http://www.dupont.com/corporate-links/msds-finder.html

Crystalline silica ID: 14808-60-7

%: 0.1 - 1 % GS: n/a RC: n/a NANO: n/a ROLE: Formulation Component

HAZARDS AGENCY(IES) WITH WARNINGS: DuPont Safety Data Sheet (SDS) US Globally Harmonized System (GHS) Ref. 130000094879

SUBSTANCE NOTES: SDS can be found at: http://www.dupont.com/corporate-links/msds-finder.html

Dibutyltin bis(acetylacetonate) ID: 22673-19-4

%: 0.1 - 1 % GS: n/a RC: n/a NANO: n/a ROLE: Formulation Component

HAZARDS AGENCY(IES) WITH WARNINGS: DuPont Safety Data Sheet (SDS) US Globally Harmonized System (GHS) Ref. 130000094879

SUBSTANCE NOTES: SDS can be found at: http://www.dupont.com/corporate-links/msds-finder.html

ID:

%, GS, RC, NANO, ROLE

HAZARDS AGENCY(IES) WITH WARNINGS:

SUBSTANCE NOTES:



Section 3: Certifications and Compliance

This section lists applicable certification and standards compliance information for VOC emissions and VOC content. Other types of health or environmental performance testing or certifications completed for the product may be provided.

1. Building Envelope Solutions contributions to LEED® buildings

CERTIFYING PARTY:

ISSUE DATE:

EXPIRY DATE:

CERTIFIER OR LAB:

APPLICABLE FACILITIES:

CERTIFICATE URL:

CERTIFICATION AND COMPLIANCE NOTES:

<http://www.dupont.com/products-and-services/construction-materials/building-envelope-systems/articles/leed-certified-building.html>

*LEED® is a registered trademark of the U.S. Green Building Council.

2. DuPont™ Tyvek® Environmental Product Declarations (EPDs)

CERTIFYING PARTY:

ISSUE DATE:

EXPIRY DATE:

CERTIFIER OR LAB:

APPLICABLE FACILITIES:

CERTIFICATE URL:

CERTIFICATION AND COMPLIANCE NOTES:

<http://www.dupont.com/products-and-services/construction-materials/building-envelope-systems/articles/sustainable-buildings.html>

3. Certification to the National Green Building Standard™, Green Approved Products

CERTIFYING PARTY:

ISSUE DATE:

EXPIRY DATE:

CERTIFIER OR LAB:

APPLICABLE FACILITIES:

CERTIFICATE URL:

CERTIFICATION AND COMPLIANCE NOTES:

<http://www.dupont.com/products-and-services/construction-materials/building-envelope-systems/articles/green-building-materials.html>

4. Testing Methods and Performance Requirements

CERTIFYING PARTY:

ISSUE DATE:

EXPIRY DATE:

CERTIFIER OR LAB:

APPLICABLE FACILITIES:

CERTIFICATE URL:

CERTIFICATION AND COMPLIANCE NOTES:

<http://www.dupont.com/products-and-services/construction-materials/building-envelope-systems/articles/evaluations-test-results-landing.html>

CERTIFYING PARTY:

ISSUE DATE:

EXPIRY DATE:

CERTIFIER OR LAB:

APPLICABLE FACILITIES:

CERTIFICATE URL:

CERTIFICATION AND COMPLIANCE NOTES:



Section 4: Accessories

This section lists related products or materials that the manufacturer requires or recommends for installation (such as adhesives or fasteners), maintenance, cleaning, or operations. For information relating to the contents of these related products, refer to their applicable Health Product Declarations, if available.

Find all DuPont Building Envelope Solutions Health Product Declarations (HPDs) at the link below:

HPD URL: www.dupont.com/products-and-services/construction-materials/building-envelope-systems/articles/sustainable-buildings.html

CONDITION WHEN RECOMMENDED OR REQUIRED AND/OR OTHER NOTES:



Section 5: General Notes

**MANUFACTURER INFORMATION**

MANUFACTURER:	E.I. du Pont de Nemours and Company	CONTACT NAME:	Hannah Suh, Ph.D
ADDRESS:	974 Centre Road Wilmington, DE 19805	TITLE:	Global Product Steward
		PHONE:	800-44-Tyvek
		EMAIL:	TyvekBKC@DuPont.com
WEBSITE:	http://www.dupont.com/products-and-services/construction-materials/tyvek-building-envelopes.html		

KEY

OSHA MSDS Occupational Safety and Health Administration Material Safety Data Sheet
GHS SDS Globally Harmonized System of Classification and Labeling of Chemicals Safety Data Sheet

Hazard Types

AQU Aquatic toxicity	GLO Global warming	PHY Physical Hazard (reactive)
CAN Cancer	MAM Mammalian/systemic/organ toxicity	REP Reproductive toxicity
DEV Developmental toxicity	MUL Multiple hazards	RES Respiratory sensitization
END Endocrine activity	NEU Neurotoxicity	SKI Skin sensitization/irritation/corrosivity
EYE Eye irritation/corrosivity	OZO Ozone depletion	LAN Land Toxicity
GEN Gene mutation	PBT Persistent Bioaccumulative Toxic	NF Not found on Priority Hazard Lists

GreenScreen (GS)

BM-4 Benchmark 4 (prefer-safer chemical)	LT-P1 List Translator Possible Benchmark 1
BM-3 Benchmark 3 (use but still opportunity for improvement)	LT-1 List Translator Likely Benchmark 1
BM-2 Benchmark 2 (use but search for safer substitutes)	LT-UNK List Translator Benchmark Unknown (insufficient information from List Translator lists to benchmark)
BM-1 Benchmark 1 (avoid - chemical of high concern)	NoGS Unknown (no data on List Translator Lists)
BM-U Benchmark Unspecified (insufficient data to benchmark)	

Recycled Types

PreC Preconsumer (Post-Industrial)
PostC Postconsumer
Both Both Preconsumer and Postconsumer
Unk Inclusion of recycled content is unknown
None Does not include recycled content

Other Terms

Inventory Methods:

Nested Method / Material Threshold Substances listed within each material per threshold indicated per material
Nested Method / Product Threshold Substances listed within each material per threshold indicated per product
Basic Method / Product Threshold Substances listed individually per threshold indicated per product

Nano Composed of nano scale particles or nanotechnology
Third Party Verified Verification by independent certifier approved by HPDC
Preparer Third party preparer, if not self-prepared by manufacturer
Applicable facilities Manufacturing sites to which testing applies

The Health Product Declaration (HPD) Open Standard provides for the disclosure of product contents and potential associated human and environmental health hazards. Hazard associations are based on the HPD Priority Hazard Lists, the GreenScreen List Translator™, and when available, full GreenScreen® assessments. The HPD Open Standard v2.1 is not:

- a method for the assessment of exposure or risk associated with product handling or use,
- a method for assessing potential health impacts of: (i) substances used or created during the manufacturing process or (ii) substances created after the product is delivered for end use.

Information about life cycle, exposure and/or risk assessments performed on the product may be reported by the manufacturer in appropriate Notes sections, and/or, where applicable, in the Certifications section.

The HPD Open Standard was created and is supported by the Health Product Declaration Collaborative (the HPD Collaborative), a customer-led organization composed of stakeholders throughout the building industry that is committed to the continuous improvement of building products through transparency, openness, and innovation throughout the product supply chain.

The product manufacturer and any applicable independent verifier are solely responsible for the accuracy of statements and claims made in this HPD and for compliance with the HPD standard noted.